

 MOTOROLA SOLUTIONS	 MS ISO/IEC 17025 TESTING SAMM No. 0825																												
MOTOROLA PENANG ADV. COMM. LABORATORY Motorola Solutions Malaysia SDN BHD, Innoplex Plot 2A, Medan Bayan Lepas, Mukim 12 S.W.D, 11900 Bayan Lepas, Penang, Malaysia.	FCC / ISED TEST REPORT Report Revision : Rev.B																												
<table><tr><td>Date/s Tested</td><td>: 16-August-2018 - 02-October-2018</td></tr><tr><td>Report Issue Date</td><td>: 02-October-2018</td></tr><tr><td>Manufacturer</td><td>: Motorola Solutions Malaysia SDN BHD</td></tr><tr><td>Manufacturer Address</td><td>: Plot 2, Bayan Lepas Technoplex, 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>Requestor</td><td>: TAN, CHIN FONG</td></tr><tr><td>Product Type</td><td>: Portable</td></tr><tr><td>Model Number</td><td>: AZH63UCH6TZ8AN</td></tr><tr><td>Frequency Band</td><td>: 806-870 MHz</td></tr><tr><td>Firmware Version</td><td>: R35.000.9174</td></tr><tr><td>Max RF Output Power</td><td>: 2 Watts</td></tr><tr><td>Applicant Name</td><td>: Motorola Solutions Inc</td></tr><tr><td>ISED Registrations</td><td>: 109AK</td></tr><tr><td>FCC Registrations</td><td>: 461337</td></tr></table> The equipment was tested accordance to the requirement listed below: <table><tr><td>(LMR) FCC 47 CFR Part 90 ISED RSS- Gen / 119</td><td>PASS</td></tr></table>		Date/s Tested	: 16-August-2018 - 02-October-2018	Report Issue Date	: 02-October-2018	Manufacturer	: Motorola Solutions Malaysia SDN BHD	Manufacturer Address	: Plot 2, Bayan Lepas Technoplex, 11900 Bayan Lepas, Penang, Malaysia	Requestor	: TAN, CHIN FONG	Product Type	: Portable	Model Number	: AZH63UCH6TZ8AN	Frequency Band	: 806-870 MHz	Firmware Version	: R35.000.9174	Max RF Output Power	: 2 Watts	Applicant Name	: Motorola Solutions Inc	ISED Registrations	: 109AK	FCC Registrations	: 461337	(LMR) FCC 47 CFR Part 90 ISED RSS- Gen / 119	PASS
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Prepared By:  Lim Khay Kwang Test Personnel	Approved By: Vincent Foong Responsible Engineer																												

Table of Contents

Report Revision History	3
1.0 General Information.....	4
2.0 Summary of Test Results	5
3.0 Measurement Uncertainty	6
4.0 Equipment List.....	7
5.0 Test Condition.....	9
5.1 Transmitter Test Conditions	9
6.0 Transmitter Test Parameters	10
6.1 RF Output Power	10
6.1.1 Test Setup.....	10
6.1.2 Test Result	10
6.2 Frequency Stability	11
6.2.1 Test Setup.....	11
6.2.2 Test Result	11
6.2.3 Test Limit.....	11
6.3 Audio Frequency Response	12
6.3.1 Test Setup.....	12
6.3.2 Test Result	12
6.3.3 Test Limit.....	12
6.4 Audio Low Pass Filter Response	13
6.4.1 Test Setup.....	13
6.4.2 Test Result	13
6.4.3 Test Limit.....	14
6.5 Modulation Limiting	15
6.5.1 Test Setup.....	15
6.5.2 Test Result	15
6.5.3 Test Limit.....	15
6.6 Occupied Bandwidth.....	16
6.6.1 Test Setup (Analog)	16
6.6.2 Test Result (Analog)	16
6.6.3 Test Setup (Digital).....	17
6.6.4 Test Result (Digital π 4/DQPSK)	18
6.6.5 Test Limit.....	18
6.7 Band Edge Conducted Spurious Emission (Part 22)	19
6.7.1 Test Setup (Analog)	19
6.7.2 Test Result (Analog)	19
6.7.3 Test Setup (Digital).....	20
6.7.4 Test Result (Digital).....	20
6.7.5 Test Limit.....	20
6.8 Transient Frequency Behavior	21
6.8.1 Test Setup.....	21
6.8.2 Test Result	21
6.8.3 Test Limit.....	22

6.9.	Adjacent Channel Power.....	23
6.9.1.	Test Setup (Analog).....	23
6.9.2.	Test Result	23
6.9.3.	Test Setup (Digital).....	24
6.9.4.	Test Result	24
6.9.5.	Test Limit.....	24
6.10.	Conducted Spurious Emission	25
6.10.1.	Test Setup.....	25
6.10.2.	Test Result (Analog).....	26
6.10.3.	Test Result (Digital π 4/DQPSK)	26
6.10.4.	Test Limit.....	26
6.11.	Radiated Spurious Emission	27
6.11.1.	Test Setup.....	27
6.11.2.	Test Result (Analog).....	27
6.11.3.	Test Result (Digital).....	28
6.11.4.	Test Limit.....	36
6.12.	Effective Radiated Power (ERP)	37
6.12.1.	Test Setup.....	37
6.12.2.	Test Result	37
6.12.3.	Test Limit.....	37
6.13.	GNSS (EIRP for 1559 - 1610MHz).....	38
6.13.1.	Test Setup.....	38
6.13.1.	Test Result	38
6.13.2.	Test Limit.....	38

Report Revision History

Revision History	Description	Date	Originator
Rev. A	Initial Report	02-October-2018	Lim Khay Kwang
Rev. B	Amended procedure and amended statement for referenced FCC ID	15-Nov-2018	Vincent Foong

1.0 General Information

EUT Description:

Technologies	Land Mobile Radio (LMR)
Modulation Type	π 4/DQPSK

General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, the EUT is to comply with the requirements of the following standards:

ANSI C63.4-2014

ANSI C63.26-2015

This transceiver with FCC/IC ID: AZ489FT5876/109U-89FT5876 is electrically identical to FCC/IC ID: AZ489FT5868/109U-89FT5868 (Previously FCC/IC certified) for FCC part 90 under equipment class: “Licensed Non-Broadcast Transmitter Held to Face” covering frequency band 809-824MHz. The only difference between both transceivers is on the controller section, which adds vibrator, Mace, Man down and GNSS. There is no change to RF sections of Transmit and Receive schematics, PCB layout and components. The applicant (Motorola Solutions Inc) therefore takes full responsibility that the test data referenced represents compliance for this new FCC application.

Spot check verification is performed on critical parameters including RF output power and Radiated Emission, while all other RF conducted power measurements shall be referenced to AZ489FT5868/109U-89FT5868 test report.

Refer to Section 2.0 Summary of Test Results that shows the matrix of testing.

2.0 Summary of Test Results

FCC General Rules Part (47CFR)	ISED General Rules Part	Test Item	Result	Remark
2.1046(a),	RSS-Gen	RF Power Output	Pass	-
2.1055	RSS-Gen	Frequency Stability	NA	*
2.1047	-	Audio Frequency Response	NA	*
2.1047	-	Audio Low Pass Filter Response	NA	*
2.1047, 74.463, 80.213	-	Modulation limiting	NA	*
2.1049	RSS-Gen	Occupied Bandwidth	NA	*
2.1051	-	Band Edge Conducted Spurious Emission	NA	*
90.214	RSS-119 (5.9)	Transient Frequency Behavior	NA	*
90.221(c)	RSS-119 (4.3), (5.8.9.1)	Adjacent Channel Power	NA	*
2.1051, 90.210	RSS-Gen, RSS-119 (4.2), (5.8)	Conducted Spurious Emissions	NA	*
2.1051	RSS-Gen	Radiated Spurious Emission	Pass	Worst case emission -27.43dBm
-	-	GNSS (EIRP for 1559 – 1610MHz)	NA	-
-	-	Effective Radiated Power (ERP)	NA	-

*The electrical performance is justified by similarity to previous certified FCC ID: AZ489FT5868 and ISED ID:109U-89FT5868

NA → Not Applicable

3.0 Measurement Uncertainty

Measurement	Frequency	Expanded Uncertainty (k=1.96) (±)
AC Power Line Conducted Spurious Emission	150KHz ~ 30MHz	3.43
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	5.01
	200MHz ~ 1000MHz	5.01
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.01
	18GHz ~ 25GHz	5.01

4.0 Equipment List

Description	Model #	Serial Number	Calibration Date	Calibration Due Date
FCC Transient ATE #1				
ATTENUATOR/SWITCH DRIVER	11713A	MY44321022	Not Required	Not Required
SWITCH CONTROL UNIT	3488A	CN37145920	Not Required	Not Required
OSCILLOSCOPE	MSO8064A	MY45003003	30-Oct-17	30-Oct-18
POWER SENSOR	E4412A	MY44420138	7-Sep-18	7-Sep-19
AUDIO ANALYZER	8903B	3413A14095	5-Feb-18	5-Feb-19
MODULATION ANALYZER	8901B	2912A01985	17-Sep-18	17-Sep-19
SIGNAL GENERATOR	8657A	3025A02255	14-Oct-17	14-Oct-18
POWER METER	E4416A	MY50000116	20-Apr-18	20-Apr-20
SPECTRUM ANALYZER	E4445A	MY45301089	21-Jul-17	21-Jul-19
STEP ATTENUATOR	8494G	MY52300689	27-Jun-18	27-Jun-19
AUDIO ANALYZER	8903B	2533A00529	2-May-18	2-May-19
STEP ATTENUATOR	8496G	MY42140158	13-Aug-18	13-Aug-19
POWER SUPPLY	6623A	2916A01428	4-Apr-18	4-Apr-19
N to N RF cable # 1	84188418 H+S MY 0812	NA	NA	NA
N to N RF cable # 2	84188418 H+S MY 0812	NA	NA	NA
N to N RF cable # 3	84188418 H+S MY 0812	NA	NA	NA
N to N RF cable # 4	84188418 H+S MY 0812	NA	NA	NA
N to N RF cable # 5	84188418 H+S MY 0812	NA	NA	NA
N to N RF cable # 6	84188418 H+S MY 0812	NA	NA	NA
N to N RF cable # 7	84188418 H+S MY 0812	NA	NA	NA
N to N RF cable # 8	84188418 H+S MY 0812	NA	NA	NA
N to N RF cable # 9	84188418 H+S MY 0812	NA	NA	NA
N to N RF cable # 10	84188418 H+S MY 0812	NA	NA	NA
BNC to BNC RF cable # 1	NA	NA	NA	NA
BNC to BNC RF cable # 2	NA	NA	NA	NA
BNC to BNC RF cable # 3	NA	NA	NA	NA
BNC to BNC RF cable # 4	NA	NA	NA	NA
BNC to BNC RF cable # 5	NA	NA	NA	NA
BNC to BNC RF cable # 6	NA	NA	NA	NA
BNC to BNC RF cable # 7	NA	NA	NA	NA
BNC to BNC RF cable # 8	NA	NA	NA	NA
BNC to BNC RF cable # 9	NA	NA	NA	NA
Aeroflex Attenuator 10dB	33-10-34-LIM	NA	NA	NA
Agilent Dual Directional Coupler	7778D	1144A07075	NA	NA
DC BLOCK	INMET 8046	NA	NA	NA
Radiated Emission				
DRG HORN FREQ.	SAS-571	719	18-Jul-17	18-Jul-19
DRG HORN FREQ.	SAS-571	720	2-Mar-17	2-Mar-19
POWER SUPPLY	6032A	2615A-01178	13-Jun-18	13-Jun-19
MICROWAVE SIGNAL GENERATOR	SMP04	100131	12-Jul-18	11-Jul-19

EMI TEST RECEIVER	ESIB26	100336	6-Jul-18	5-Jul-19
SIGNAL ANALYZER	FSV40	101103	4-Jul-18	3-Jul-19
5M SEMI-ANECHOIC CHAMBER	S800-HX	J2308	Not Required	Not Required
BILOG ANTENNA	CBL6112D	30991	23-Apr-18	23-Apr-19
BILOG ANTENNA	CBL6112B	2964	16-Feb-18	16-Feb-20
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170255	7-Nov-17	7-Nov-18
DATA LOGGER	SDL500	A.016776	18-Mar-17	18-Mar-19
LOOP ANTENNA	6502	203479	8-Aug-17	8-Nov-18
SYSTEM CONTROLLER	SC104V	050806-1	Not Required	Not Required
TURNTABLE FLUSH MOUNT 2M	FM2011	NA	Not Required	Not Required
ANTENNA POSITIONING TOWER	TLT2	NA	Not Required	Not Required
18 - 40GHZ PREAMPLIFIER	Miteq Hi Gain Sucoflex	002	Not Required	Not Required
PREAMPLIFIER	PAM-0118P	361	Not Required	Not Required
AUDIO ANALYZER	8903B			
TEST SOFTWARE	EMC_FCC_IC_Bluetooth_RE_Test			

5.0 Test Condition

5.1 Transmitter Test Conditions

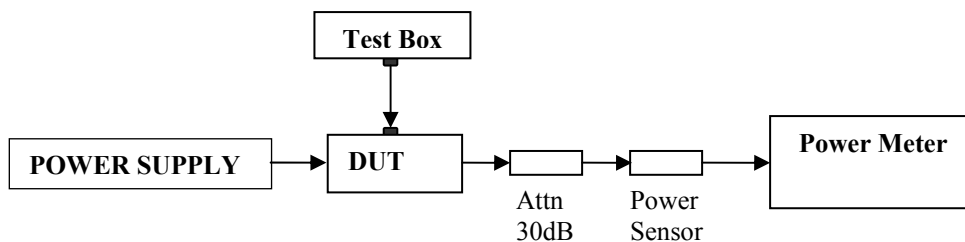
Test Item, (Channel Spacing)	Power (W)	Modulation	Test Frequency (MHz)	Tested By
RF Output Power	Max	π 4/DQPSK	806.025 , 809.025 , 815.025 , 823.925 , 851.025 , 854.025 , 859.025 , 868.9875	Lim Khay Kwang
Frequency Stability	Max	π 4/DQPSK	NA	NA
Audio Frequency Response (12.5kHz / 25kHz)	Max	Analog	NA	NA
Audio Low Pass Filter Response (12.5kHz / 25kHz)	Max	Analog	NA	NA
Modulation limiting (12.5kHz / 25kHz)	Max	Analog	NA	NA
Occupied Bandwidth (12.5kHz / 20kHz / 25kHz)	Max	π 4/DQPSK	NA	NA
Band Edge Conducted Spurious Emissions (Part 22) (12.5kHz / 20kHz / 25kHz)	Max	Analog, C4FM, Phase II	NA	NA
Transient Frequency Behavior (UHF & VHF Band) (12.5kHz / 25kHz)	Max	Analog, C4FM, Phase II	NA	NA
Adjacent Channel Power (700MHz Band) (12.5kHz / 25kHz)	Max	π 4/DQPSK	NA	NA
Conducted Spurious Emissions- (12.5kHz / 25kHz)	Max	π 4/DQPSK	NA	NA
Radiated Spurious Emission (12.5kHz / 25kHz)	Max	π 4/DQPSK	806.025 , 809.025 , 815.025 , 823.925 , 851.025 , 854.025 , 859.025 , 868.9875	Azil & Qawiman
GNSS (EIRP for 1559 - 1610MHz) (12.5kHz / 25kHz)	Max	Analog	NA	NA
Effective Radiated Power (ERP) (12.5kHz / 25kHz)	Max	Analog	NA	NA

NA → Not Applicable

6.0 Transmitter Test Parameters

6.1. RF Output Power

6.1.1. Test Setup



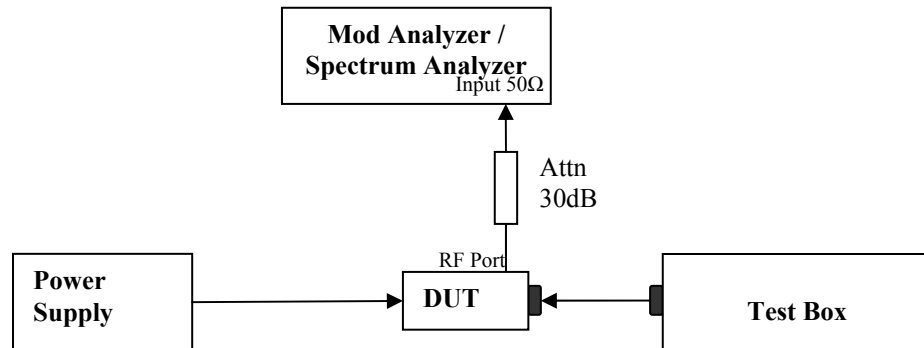
- 1) The DUT transmitter connected to Power Meter using the 30 dB attenuator and power sensor with above setup.
- 2) Path loss for the measurement included.
- 3) All the measurement was done at low, mid, high frequency for each band.
- 4) Record the power into the test report.

6.1.2. Test Result

Temperature	25°C		
Voltage (V)	3.8V		
Frequency (MHz)	Max Power (W)	Current (A)	Remark
806.02500	1.84	2.56	RSS 119
809.02500	1.76	2.51	FCC PART 90
815.02500	1.76	2.44	FCC PART 90, RSS 119
823.92500	1.71	2.42	FCC PART 90, RSS 119
851.02500	1.62	2.20	RSS 119
854.02500	1.62	2.39	FCC PART 90
859.02500	1.62	2.32	FCC PART 90, RSS 119
868.98750	1.67	2.45	FCC PART 90, RSS 119

6.2. Frequency Stability

6.2.1. Test Setup



- 1) The DUT transmitter output port was connected to Modulation / Spectrum Analyzer.
- 2) Path loss for the measurement included.
- 3) Transmit the DUT and record the freq in MCF_{MHz} .
- 4) Test in 2 conditions:
 - Temperature: The frequency of the transmitter was measured from -30°C to 50°C.
 - Supply Voltage:
 - Mobile: The frequency of the transmitter was measured from 85% to 115% of the nominal operating input voltage.
 - Portable: The frequency of the transmitter was measured from nominal $\pm x\%$ as specified by the manufacturer
- 5) Calculate the ppm frequency error by the following:

$$ppm\ error = \left(\frac{MCF_{MHz}}{ACF_{MHz}} - 1 \right) * 10^6$$

Where: MCF_{MHz} is the Measured Carrier Frequency in MHz
 ACF_{MHz} is the Assigned Carrier Frequency in MHz

6.2.2. Test Result

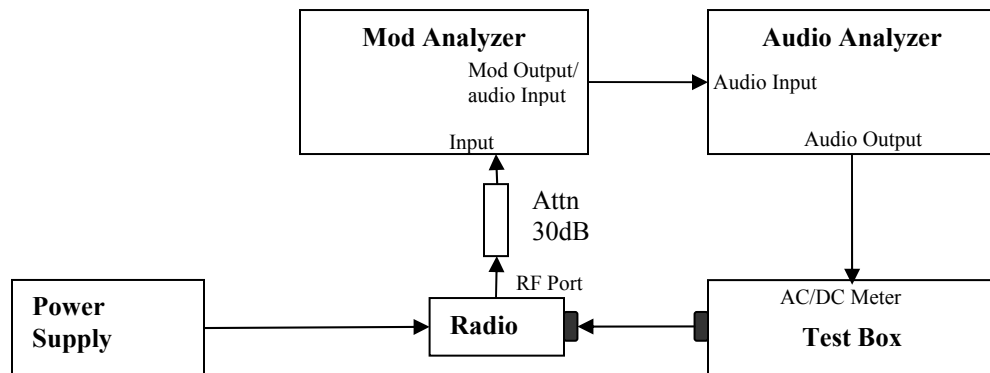
Not applicable.

6.2.3. Test Limit

As per manufacturer declared spec +/- 1.5ppm

6.3. Audio Frequency Response

6.3.1. Test Setup

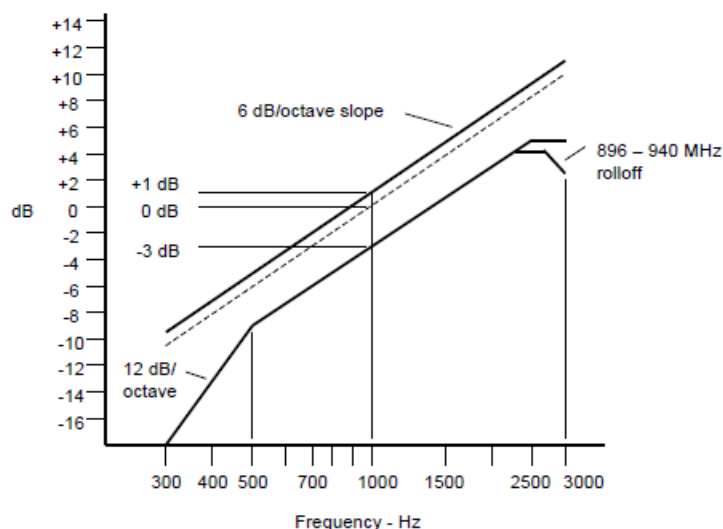


- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Set the audio bandwidth filter to 15 kHz and 50 kHz.
- 4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 20% of the Full rated system deviation.
- 5) On audio analyzer, set the rated level as reference to zero.
- 6) Vary the audio frequency from 300 Hz to 3 kHz. Record the change in dB on the audio analyzer.

6.3.2. Test Result

Not applicable.

6.3.3. Test Limit

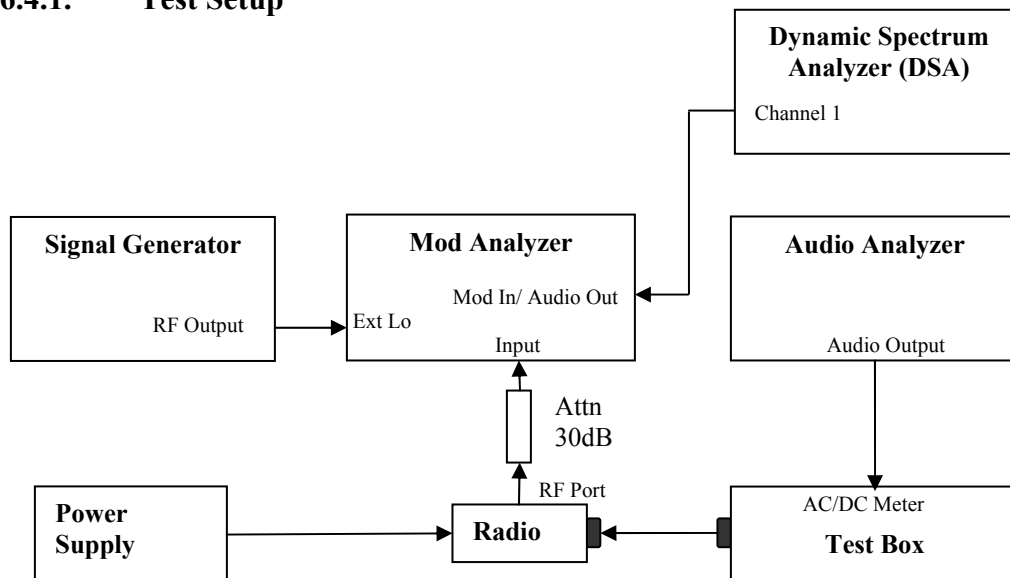


Note:

- o There are additional 6 dB per octave attenuation is allowed from 2.5KHz to 3KHz in equipment 25MHz to 869MHz radio.
- o Additional 6 dB per octave attenuation is allowed from 2.3KHz to 2.7KHz & additional 12 dB per octave attenuation is allowed from 2.7KHz to 3KHz in equipment 896MHz to 940MHz radio.

6.4. Audio Low Pass Filter Response

6.4.1. Test Setup

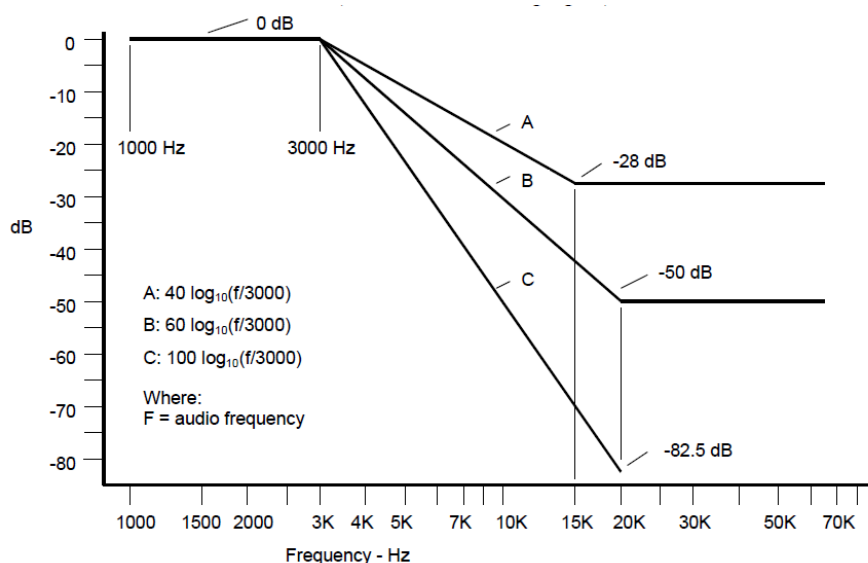


- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Press 23.1SPCL on modulation analyzer to enable the external LO from Sigen.
- 4) Set the Sigen frequency to $F_c + 1.5$ MHz, RF output level to 0dBm without modulation.
- 5) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 60% of the Full rated system deviation.
- 6) Up the amplitude by 20dB.
- 7) On DSA, get the reference point to 0dB.
- 8) Vary the frequency on audio analyzer from 3 kHz to 20 kHz, record the audio tone from DSA.

6.4.2. Test Result

Not applicable.

6.4.3. Test Limit



For audio frequencies above 3000 Hz, the audio response of the post limiter low-pass filter shall meet or exceed the following requirements:

- a) For equipment operating on 20, 25 or 30 kHz channel bandwidth in the 25 MHz to 174 MHz range:

At frequencies from 3000 Hz through 15,000 Hz the attenuation shall be greater than the attenuation at 1000 Hz by at least: $40 \log_{10}(f/3000)$ dB

where: f is the audio frequency in Hz.

At frequencies above 15,000 Hz, the attenuation shall be greater than the attenuation at 1000 Hz, by at least: 28 dB.

- b) For equipment operating with 25 kHz bandwidth channels between 406 and 512 MHz through 896 MHz, and between 929 MHz through 930 MHz:

At frequencies from 3000 Hz through 20,000 Hz, the attenuation shall be greater than the attenuation at 1000 Hz by at least: $60 \log_{10}(f/3000)$ dB

where: f is the audio frequency in Hz.

At frequencies above 20,000 Hz the attenuation shall be greater than the attenuation at 1000 Hz by at least: 50 dB.

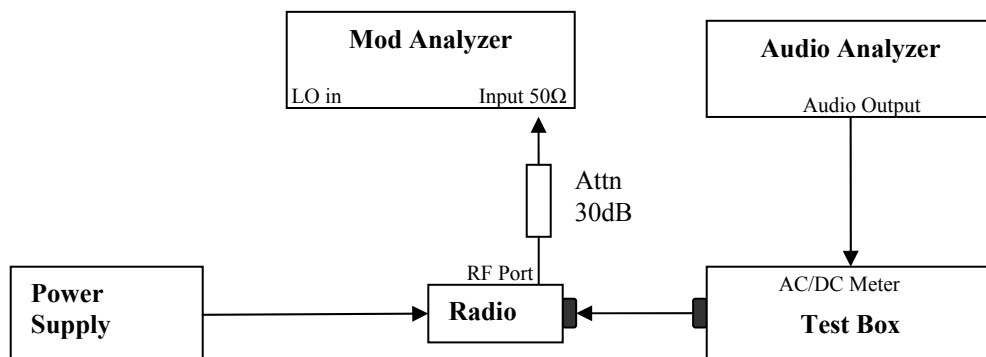
- c) For equipment operating on channels between 896 MHz through 901 MHz, between 935 MHz through 940 MHz, and 12.5 or 15 kHz spaced channels in the frequency range 138-174 MHz and 406-512 MHz.

At frequencies from 3000 Hz through 20,000 Hz the attenuation shall be greater than the attenuation at 1000 Hz by at least: $100 \log_{10}(f/3000)$ dB

where: f is the audio frequency in Hz.

6.5. Modulation Limiting

6.5.1. Test Setup



- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Set the audio bandwidth filter to 15 kHz.
- 4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 60% of the Full rated system deviation.
- 5) Record the frequency deviation as 0dB input level at 1kHz audio frequency.
- 6) Repeat the step and record the frequency deviation from -20 dB to 20dB by 5 dB increments and different audio freq 300 Hz, 2.5 kHz and 3 kHz.

6.5.2. Test Result

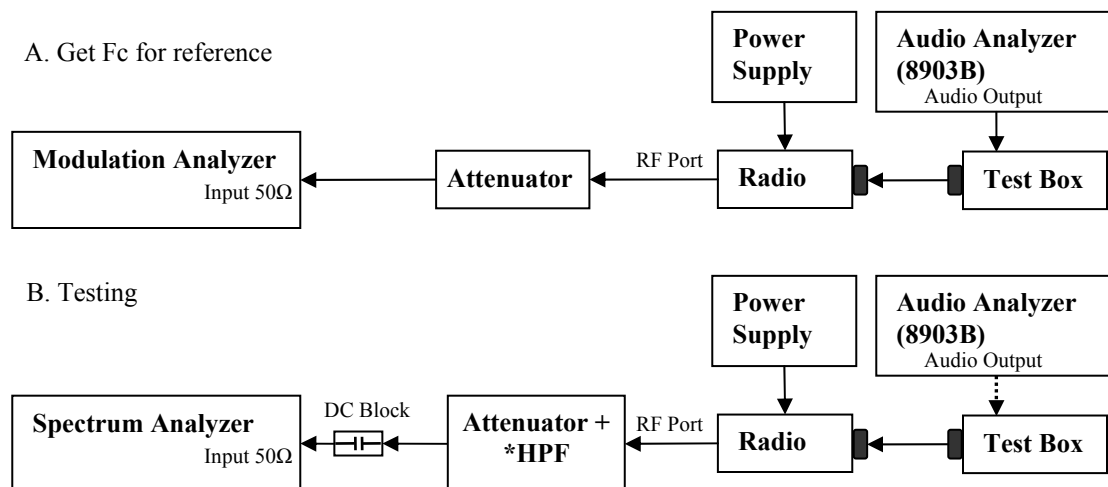
Not applicable.

6.5.3. Test Limit

Modulation Limiting shall not exceed 100 percent.

6.6. Occupied Bandwidth

6.6.1. Test Setup (Analog)



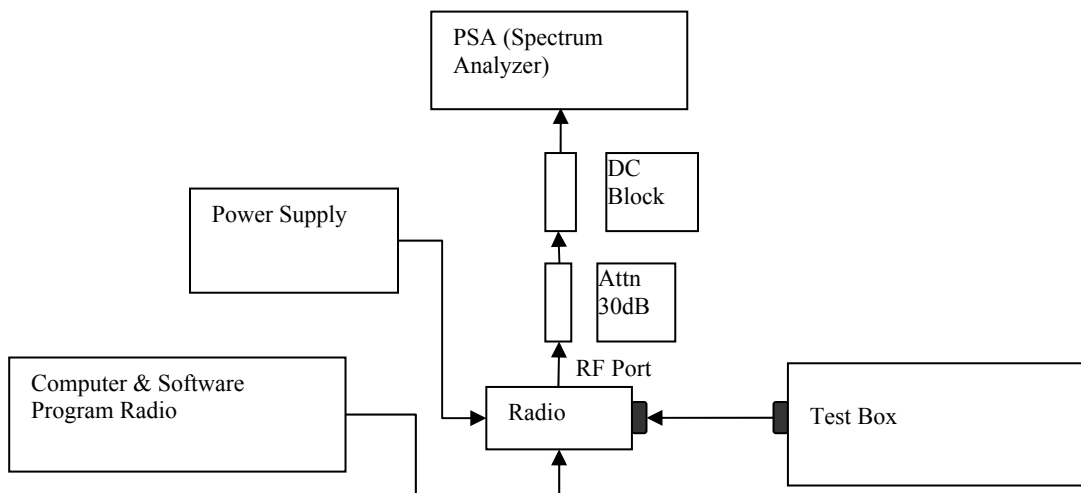
- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
- 3) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB. Dekey the DUT.
- 4) Path loss for the measurement included.
- 5) Select the Occupied Bandwidth measurement for 99% Emissions Bandwidth Measurement.
- 6) Key in the Fc and Resolution Bandwidth (1 ~ 5 % of emission designator).
- 7) Transmit the DUT and record the occupied Bandwidth frequency.
- 8) Preset the spectrum analyzer for sideband spectrum measurement.
- 9) Set the span and Resolution Bandwidth (according to FCC/ ISED standard).
- 10) Save the screen shot as modulated signal
- 11) Remove the audio tone from audio analyzer to capture unmodulated signal.

* Only HPF added for Mask 80.211 measurement with attenuator.

6.6.2. Test Result (Analog)

Not applicable.

6.6.3. Test Setup (Digital)



- 1) Program and set radio to operate in desire test frequency and digital mode with modulation. (*4FSK, C4FM or other digital modulation form).
- 2) Path loss for the measurement included.
- 3) Select the Occupied Bandwidth measurement for 99% Emissions Bandwidth Measurement.
- 4) Key in the Fc and Resolution Bandwidth (1 ~ 5 % of emission designator).
- 5) Transmit the DUT and record the occupied Bandwidth frequency.
- 6) Preset the spectrum analyzer for modulation emission spectrum measurement.
- 7) Set the span and Resolution Bandwidth (according to FCC/ ISED standard).
- 8) Capture the screen shot as modulated signal.

*Note:

- All emission designators utilize a high deviation test pattern for the below tests, and are therefore identical. Therefore, only emission designator F1W will be shown.
- Based on 90.209 and 90.210, equipment is allowed to use an authorized bandwidth of up to 22kHz if it either meets emission mask 90.691 or ACP limits in 90.221. Both results can be seen in this report.

6.6.4. Test Result (Digital π 4/DQPSK)

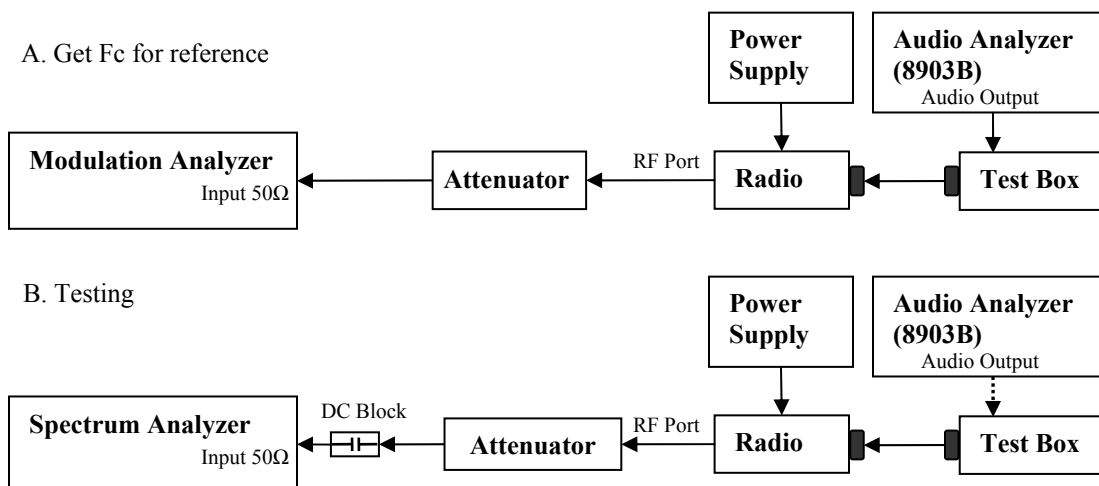
Not applicable.

6.6.5. Test Limit

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

6.7. Band Edge Conducted Spurious Emission (Part 22)

6.7.1. Test Setup (Analog)



- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
- 3) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB. Dekey the DUT.
- 4) Path loss for the measurement included.
- 5) Select the Occupied Bandwidth measurement for 99% and 26dB Emissions Bandwidth Measurement.
- 6) Key in the Fc and Resolution Bandwidth.
- 7) Transmit the DUT and record the occupied Bandwidth frequencies.
- 8) Preset the spectrum analyzer for band edge measurement.
- 9) The band edges of lowest and highest channels were measured.
- 10) Key in the Lowest and highest channel frequency, span is 60 kHz and Resolution Bandwidth is at least 1% of Emission Bandwidth.
- 11) Save the screen shot as modulated signal.
- 12) Remove the audio tone from audio analyzer to capture unmodulated signal.

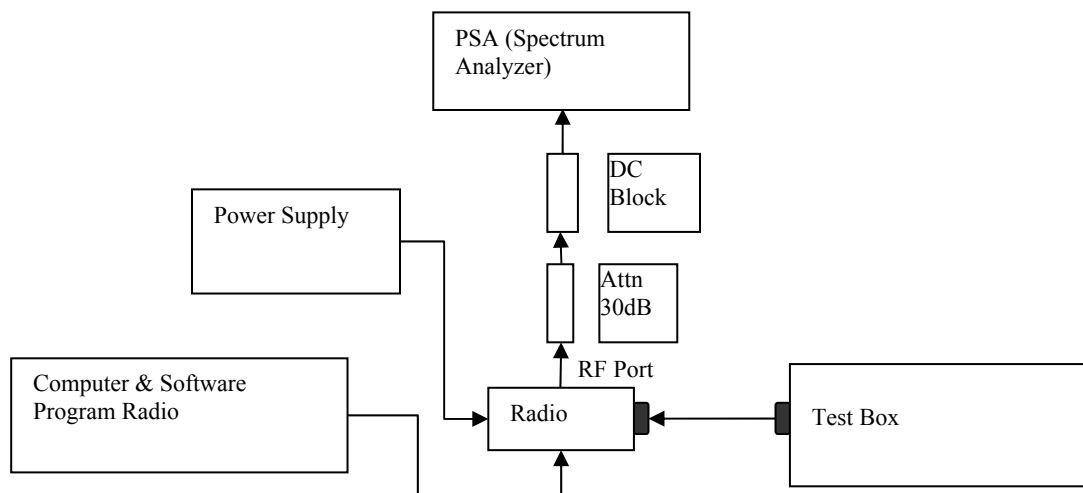
*Note:

- For emission designator ending with F3E, 16K0F3E is the worst case and therefore only 16K0F3E will be shown.

6.7.2. Test Result (Analog)

Not applicable.

6.7.3. Test Setup (Digital)



- 1) Program and set radio to operate in desire test frequency and digital mode with modulation. (*4FSK, C4FM or other digital modulation form).
- 2) Path loss for the measurement included.
- 3) Select the Occupied Bandwidth measurement for 99% and 26dB Emissions Bandwidth Measurement.
- 4) Key in the Fc and Resolution Bandwidth.
- 5) Transmit radio record the occupied Bandwidth frequencies.
- 6) Preset the spectrum analyzer for band edge measurement.
- 7) Key in the lowest and highest channels frequency, span is 60 kHz and Resolution Bandwidth is at least 1% of Emission Bandwidth.
- 8) Save the screen shot.

*Note:

- For Digital Modulation, 12.5 kHz Data F1D & FXD would be the same. Therefore only measurements with F1D modulation shown below.
- For Digital Modulation, 12.5 kHz Data F1E & FXE would be the same. Therefore only measurements with F1E modulation shown below.

6.7.4. Test Result (Digital)

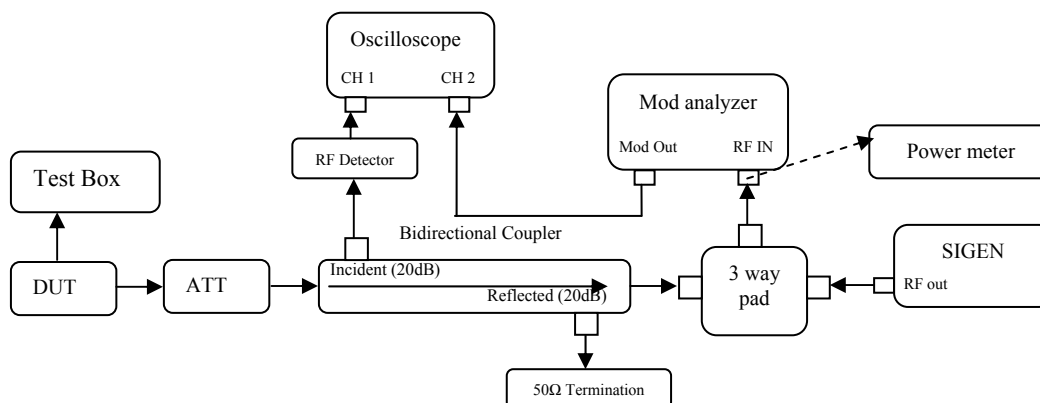
Not applicable.

6.7.5. Test Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

6.8. Transient Frequency Behavior

6.8.1. Test Setup



- 1) Connect the setup as figure above.
- 2) Path loss for the measurement included.
- 3) Set on Sigen with the assigned center frequency, internal 1 kHz FM tone.
FM Deviation: Analog 25kHz Channel Spacing = 25 kHz
Analog 12.5 kHz Channel Spacing = 12.5 kHz
C4FM = 12.5 kHz
- 4) Turn on 50 kHz high pass filter and 15 kHz low pass filter on modulation analyzer.
- 5) Supply sufficient attenuation ATT to provide the output power of $\leq -11\text{dBm}$ into power meter when DUT is keying up.
- 6) Note the power level on power meter and dekey the DUT.
- 7) Adjust the amplitude of the signal generator to the level power meter, maintained the amplitude throughout the rest of the measurement.
- 8) Connect the output to modulation analyzer.
- 9) Reduce 30dB attenuation and transmit the radio to get the trigger line.
- 10) Capture the screen shot for key-up (rising edge) and de-key (falling edge) mode.

6.8.2. Test Result

Not Applicable.

6.8.3. Test Limit

Transmitters designed to operate in the 150-174 MHz and 421-512 MHz frequency bands must maintain transient frequencies within the maximum frequency difference limits during the time intervals indicated:

Time intervals ^{1 2}	Maximum frequency difference ³	All equipment	
		150 to 174 MHz	421 to 512 MHz
Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels			
t ₁ ⁴	±25.0 kHz	5.0 ms	10.0 ms
t ₂	±12.5 kHz	20.0 ms	25.0 ms
t ₃ ⁴	±25.0 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 12.5 kHz Channels			
t ₁ ⁴	±12.5 kHz	5.0 ms	10.0 ms
t ₂	±6.25 kHz	20.0 ms	25.0 ms
t ₃ ⁴	±12.5 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 6.25 kHz Channels			
t ₁ ⁴	±6.25 kHz	5.0 ms	10.0 ms
t ₂	±3.125 kHz	20.0 ms	25.0 ms
t ₃ ⁴	±6.25 kHz	5.0 ms	10.0 ms

¹ t_{on} is the instant when a 1 kHz test signal is completely suppressed, including any capture time due to phasing.

t_1 is the time period immediately following t_{on} .

t_2 is the time period immediately following t_1 .

t_3 is the time period from the instant when the transmitter is turned off until t_{off} .

t_{off} is the instant when the 1 kHz test signal starts to rise.

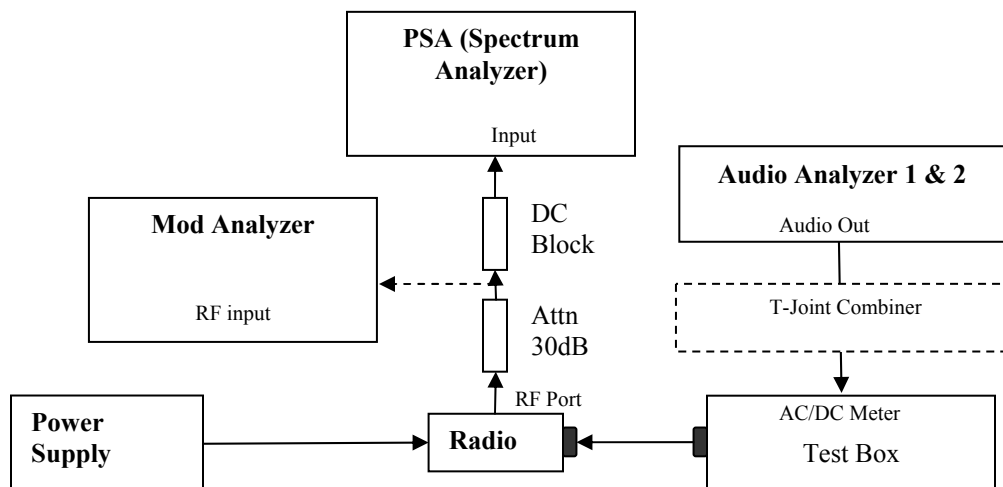
² During the time from the end of t_2 to the beginning of t_3 , the frequency difference must not exceed the limits specified in §90.213.

³ Difference between the actual transmitter frequency and the assigned transmitter frequency.

⁴ If the transmitter carrier output power rating is 6 watts or less, the frequency difference during this time period may exceed the maximum frequency difference for this time period.

6.9. Adjacent Channel Power

6.9.1. Test Setup (Analog)

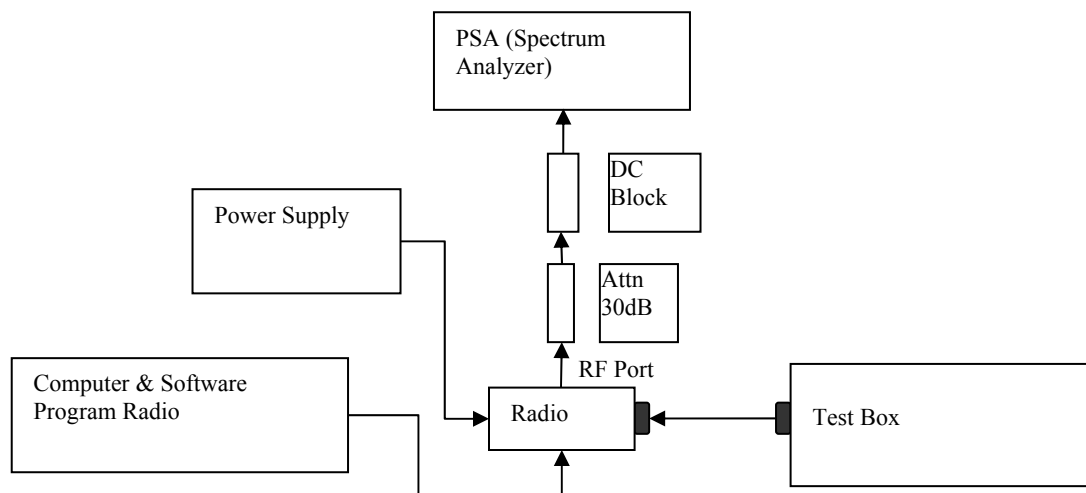


- 1) The DUT transmitter output port was connected to modulation analyzer.
- 2) Transmit the radio and turn on 1st audio analyzer with audio frequency 650Hz, 50% rated deviation, and record the amplitude value as AmpT1.
- 3) Turn off Audio analyzer 1 and turn on audio analyzer 2, set the audio frequency to 2.2 kHz and 50% deviation. Record the amplitude as AmpT2.
- 4) Turn both audio analyzers ON and up 10dB amplitude level.
- 5) Connect the output to PSA and set to assigned center frequency.
- 6) Set Span, Resolution Bandwidth and Video Bandwidth per rules part.
- 7) Transmit the radio and record the Adjacent Channel Power value in dBc.

6.9.2. Test Result

Not Applicable.

6.9.3. Test Setup (Digital)



- 1) Program and set radio to operate in desire test frequency and digital mode with modulation. (4FSK, C4FM or other digital modulation form).
- 2) Prepare setup as per picture.
- 3) Turn on the ACP Measurement – Press Measure, ACP.
- 4) Set Span, Resolution Bandwidth and Video Bandwidth as per rules part.
- 5) Transmit the radio and record the Adjacent Channel Power value in dBc.

6.9.4. Test Result

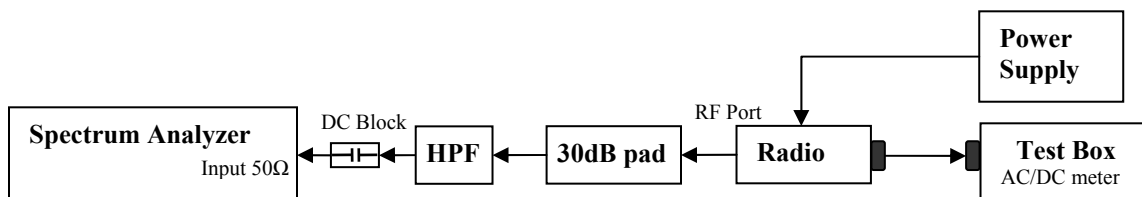
Not applicable.

6.9.5. Test Limit

Frequency offset	Maximum ACP (dBc) for devices less than 15 watts	Maximum ACP (dBc) for devices 15 watts and above
25 kHz	–55 dBc	–55 dBc
50 kHz	–65 dBc	–65 dBc
75 kHz	–65 dBc	–70 dBc

6.10. Conducted Spurious Emission

6.10.1. Test Setup



- 1) The DUT transmitter output port was connected to Spectrum Analyzer with above setup.
- 2) Program and set radio to operate in desire test frequency and mode. (Analog / digital modulation form).
- 3) Path loss for the measurement included.
- 4) Set the PSA Resolution Bandwidth as per rules part.
- 5) Set the Ref offset from the pathloss offset calibration file.
- 6) Adjust the center frequency of the spectrum analyzer for incremental coverage of the range from:
 - a. 9 KHz to $F_c - \text{Test Bandwidth}$
 - b. $F_c + \text{Test Bandwidth}$ to $2F_c - 5\text{MHz}$.
- 7) Key up the DUT, Peak Search the highest Spur and record the levels of spurious emissions
- 8) Dekey the DUT.
- 9) Turn On High Pass Filter path and Key up the DUT.
- 10) Adjust the PSA Freq for incremental coverage of range from $2F_c$ to $10F_c$
- 11) Key up the DUT and record the highest spur levels of spurious emissions.

6.10.2. Test Result (Analog)

Not applicable.

6.10.3. Test Result (Digital π 4/DQPSK)

Not applicable.

6.10.4. Test Limit

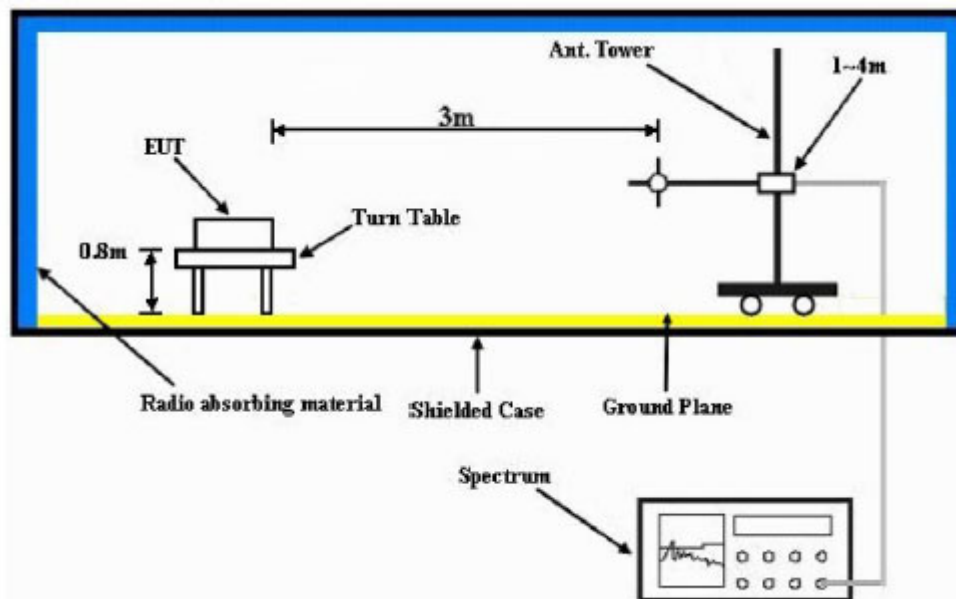
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

Channel Spacing	Part 22	Part 24D	Part 74	Part 80	Part 90 (UHF, VHF, 800, 900)	Part 90 (700)
12.5kHz	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	Not Applicable	50 + log10(P) (-20 dBm)	43 + log10(P) (-13 dBm)
25kHz		Not Applicable		43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)

Channel Spacing	RSS 134	RSS 182	RSS 119 (UHF, VHF, 800, 900)	RSS 119 (700)
12.5kHz	43 + log10(P) (-13 dBm)	Not Applicable	50 + log10(P) (-20 dBm)	43 + log10(P) (-13 dBm)
25kHz	Not Applicable	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)

6.11. Radiated Spurious Emission

6.11.1. Test Setup



- 1) The Resolution Bandwidth for scanning Radiated Emission below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector mode is positive peak.
- 2) In the semi- anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height (<1GHz) or 1.5m (>1GHz) of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- 3) The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
- 4) Final Radiated Spurious Emission = “Read Value” + Measured substitution value.

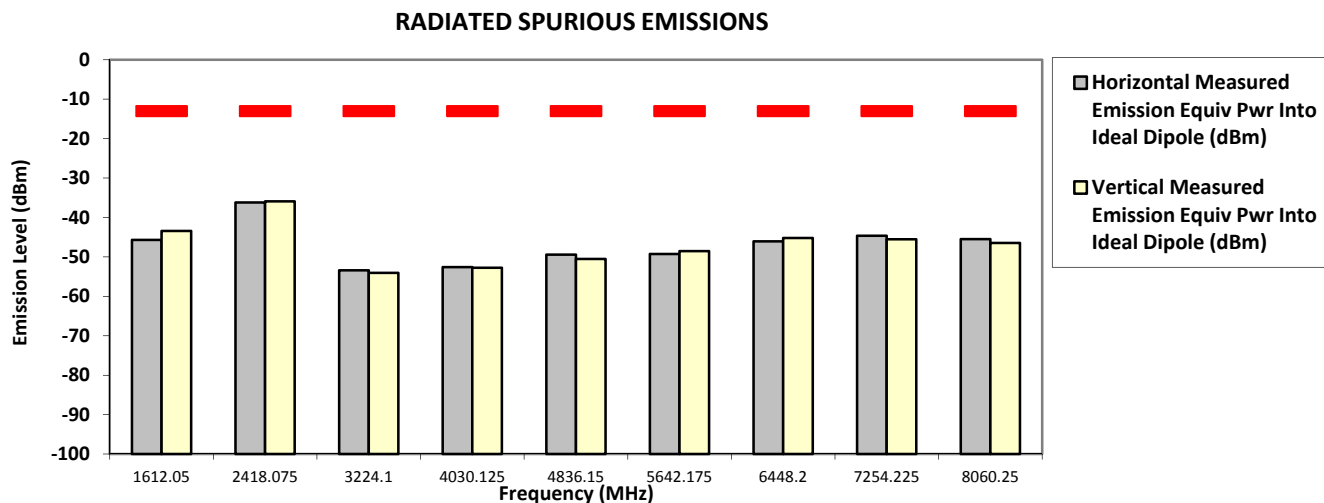
6.11.2. Test Result (Analog)

Not Applicable.

6.11.3. Test Result (Digital)

Model Number: AZH63UCH6TZ8AN **SAC Transmitter Radiated Emission:**
Battery Part No: NNTN8023C **S/N:** 893TUB6029 **SR:**02567-EMC-00039
Test Mode: TX Digital (DQPSK) **Accy Part No:** NA
806.025000 MHz **25 kHz** **2.000 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1612.0500	-13.0000	-45.6800 *	-43.4300 *
2418.0750	-13.0000	-36.2000 *	-35.9200 *
3224.1000	-13.0000	-53.3802 **	-54.0666 **
4030.1250	-13.0000	-52.5859 **	-52.7319 **
4836.1500	-13.0000	-49.4410 **	-50.4997 **
5642.1750	-13.0000	-49.2486 **	-48.5194 **
6448.2000	-13.0000	-46.0612 **	-45.1976 **
7254.2250	-13.0000	-44.6193 **	-45.5367 **
8060.2500	-13.0000	-45.4678 **	-46.4714 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Azil & Qawiman Thu, Aug 16, 2018

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 24.1 Hum(%RH): 70.3

System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

NOT FOR FCC REVIEW

SAC Transmitter Radiated Emission:

Model Number: AZH63UCH6TZ8AN

S/N: 893TUB6029

SR:02567-EMC-00039

Battery Part No: NNTN8023C

Accy Part No: NA

Test Mode: TX Digital (DQPSK)

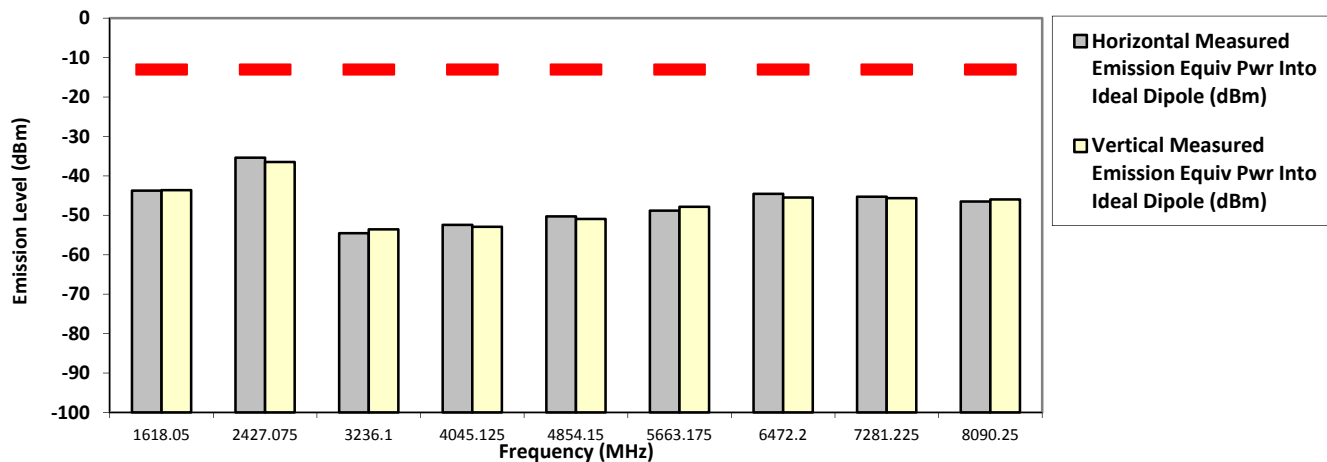
809.025000 MHz

25 kHz

2.000 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1618.0500	-13.0000	-43.7600 *	-43.6100 *
2427.0750	-13.0000	-35.4000 *	-36.4700 *
3236.1000	-13.0000	-54.5395 **	-53.5750 **
4045.1250	-13.0000	-52.4081 **	-52.8992 **
4854.1500	-13.0000	-50.2759 **	-50.9414 **
5663.1750	-13.0000	-48.8341 **	-47.8463 **
6472.2000	-13.0000	-44.5436 **	-45.4775 **
7281.2250	-13.0000	-45.2720 **	-45.6640 **
8090.2500	-13.0000	-46.5193 **	-45.9631 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab – Test Performed by: Azil & Qawiman Thu, Aug 16, 2018

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 24.1 Hum(%RH): 70.3

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: AZH63UCH6TZ8AN

S/N: 893TUB6029

SR:02567-EMC-00039

Battery Part No: NNTN8023C

Accy Part No: NA

Test Mode: TX Digital (DQPSK)

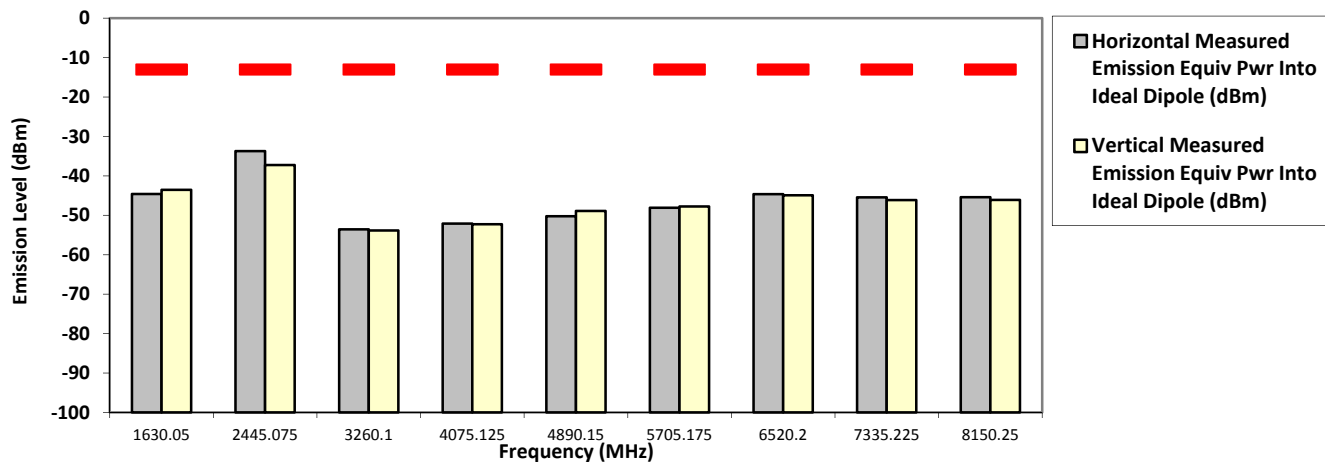
815.025000 MHz

25 kHz

2.000 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1630.0500	-13.0000	-44.6100 *	-43.5500 *
2445.0750	-13.0000	-33.7000 *	-37.2300 *
3260.1000	-13.0000	-53.5496 **	-53.8449 **
4075.1250	-13.0000	-52.1070 **	-52.2457 **
4890.1500	-13.0000	-50.2500 **	-48.9067 **
5705.1750	-13.0000	-48.0647 **	-47.7422 **
6520.2000	-13.0000	-44.6509 **	-44.9057 **
7335.2250	-13.0000	-45.4318 **	-46.1470 **
8150.2500	-13.0000	-45.4023 **	-46.1107 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab – Test Performed by: Azil & Qawiman

Thu, Aug 16, 2018

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 24.1 Hum(%RH): 70.3

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

SAC Transmitter Radiated Emission:

Model Number: AZH63UCH6TZ8AN

S/N: 893TUB6029

SR:02567-EMC-00039

Battery Part No: NNTN8023C

Accy Part No: NA

Test Mode: TX Digital (DQPSK)

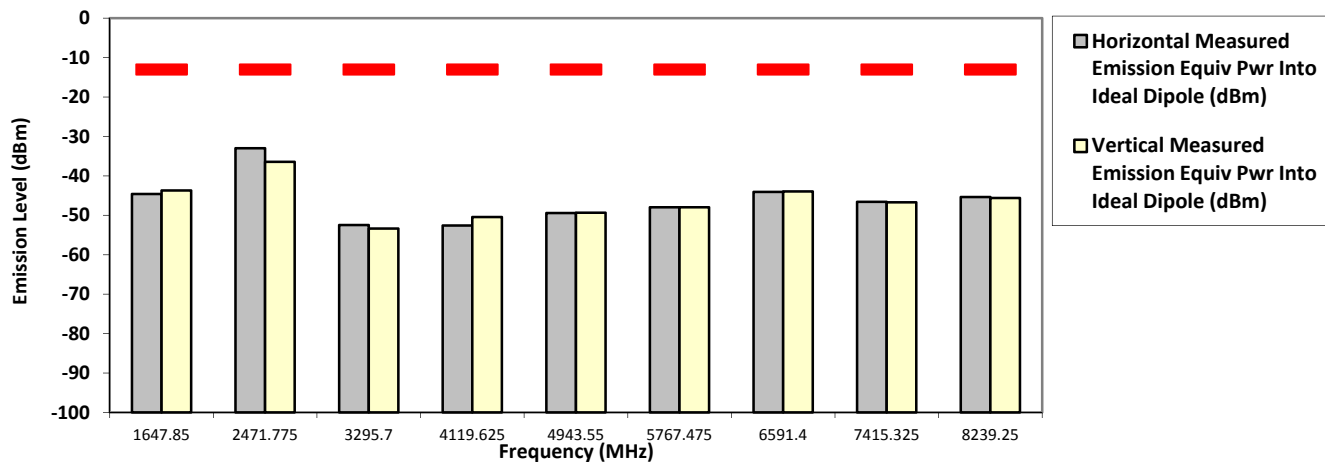
823.925000 MHz

25 kHz

2.000 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1647.8500	-13.0000	-44.6000 *	-43.6900 *
2471.7750	-13.0000	-32.9800	-36.4400 *
3295.7000	-13.0000	-52.4542 **	-53.3781 **
4119.6250	-13.0000	-52.5875 **	-50.4258 **
4943.5500	-13.0000	-49.4429 **	-49.3390 **
5767.4750	-13.0000	-47.9825 **	-47.9614 **
6591.4000	-13.0000	-44.0835 **	-43.9643 **
7415.3250	-13.0000	-46.5731 **	-46.7137 **
8239.2500	-13.0000	-45.3623 **	-45.6098 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab – Test Performed by: Azil & Qawiman Thu, Aug 16, 2018

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 24.1 Hum(%RH): 70.3

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

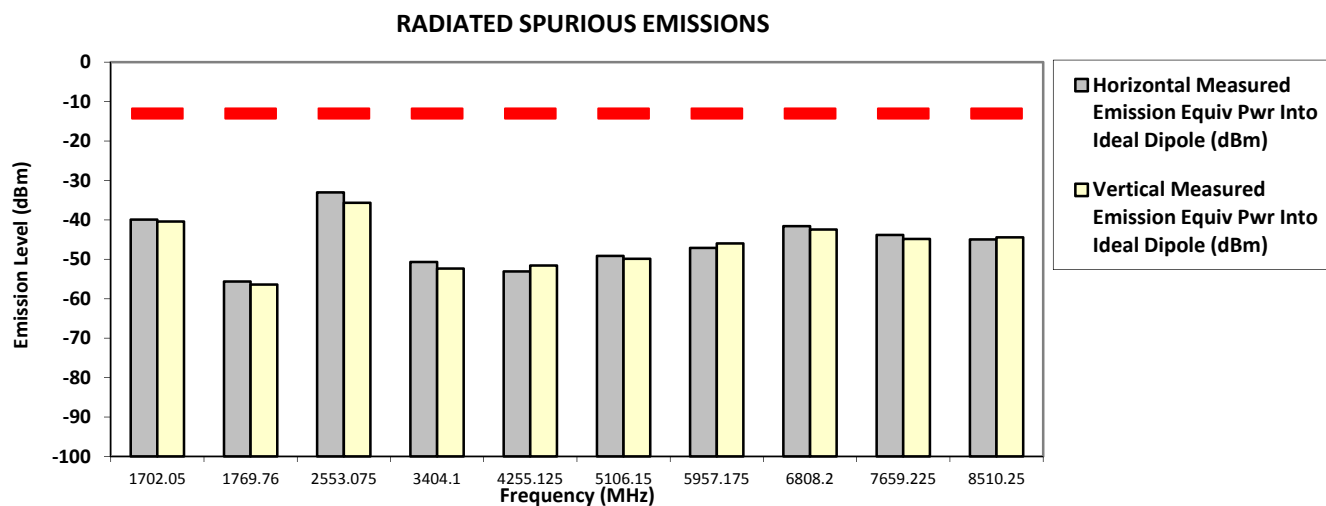
Model Number: AZH63UCH6TZ8AN **S/N:** 893TUB6029 **SR:**02567-EMC-00039

Battery Part No: NNTN8023C **Accy Part No:** NA

Test Mode: TX Digital (DQPSK) **2.000 Watt(s) /Max Power**

851.025000 MHz **25 kHz**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1702.0500	-13.0000	-39.9200 *	-40.4100 *
1769.7600	-13.0000	-55.6200 *	-56.3900 *
2553.0750	-13.0000	-33.0200 *	-35.6500 *
3404.1000	-13.0000	-50.6773 **	-52.3321 **
4255.1250	-13.0000	-53.0828 **	-51.5863 **
5106.1500	-13.0000	-49.1263 **	-49.8711 **
5957.1750	-13.0000	-47.1169 **	-45.9577 **
6808.2000	-13.0000	-41.5878 **	-42.4325 **
7659.2250	-13.0000	-43.8278 **	-44.8381 **
8510.2500	-13.0000	-44.9553 **	-44.4455 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab – Test Performed by: Azil & Qawiman Thu, Aug 16, 2018

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 24.1 Hum(%RH): 70.3

System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

NOT FOR FCC REVIEW

SAC Transmitter Radiated Emission:

Model Number: AZH63UCH6TZ8AN

S/N: 893TUB6029

SR:02567-EMC-00039

Battery Part No: NNTN8023C

Accy Part No: NA

Test Mode: TX Digital (DQPSK)

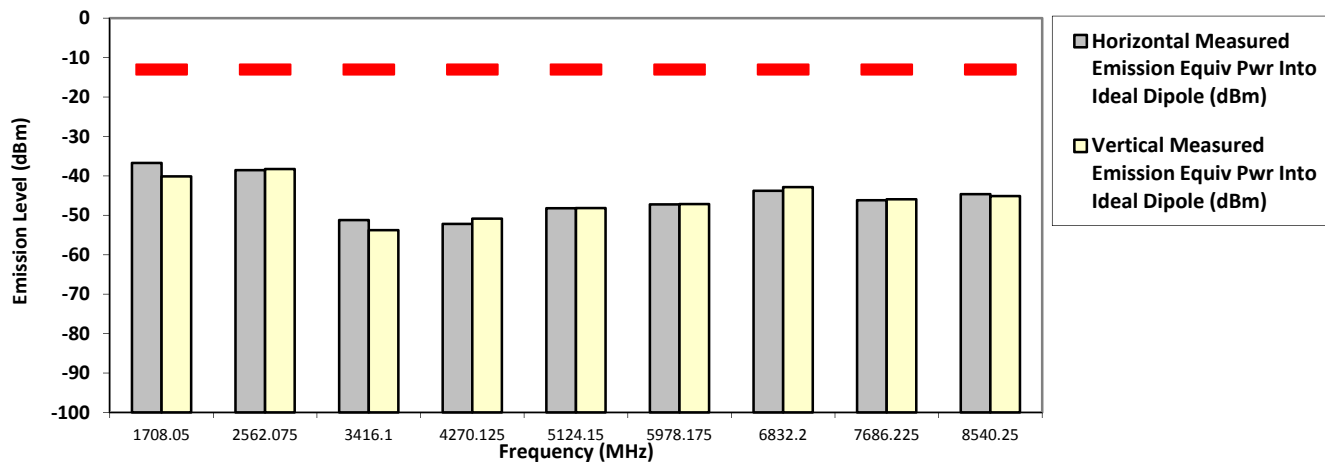
854.025000 MHz

25 kHz

2.000 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1708.0500	-13.0000	-36.7100 *	-40.1300 *
2562.0750	-13.0000	-38.5600 *	-38.2500 *
3416.1000	-13.0000	-51.2144 **	-53.7668 **
4270.1250	-13.0000	-52.1713 **	-50.8389 **
5124.1500	-13.0000	-48.1940 **	-48.1580 **
5978.1750	-13.0000	-47.2520 **	-47.1321 **
6832.2000	-13.0000	-43.7991 **	-42.8364 **
7686.2250	-13.0000	-46.1648 **	-45.9158 **
8540.2500	-13.0000	-44.6428 **	-45.1152 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Azil & Qawiman

Thu, Aug 16, 2018

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 24.1 Hum(%RH): 70.3

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

SAC Transmitter Radiated Emission:

Model Number: AZH63UCH6TZ8AN

S/N: 893TUB6029

SR:02567-EMC-00039

Battery Part No: NNTN8023C

Accy Part No: NA

Test Mode: TX Digital (DQPSK)

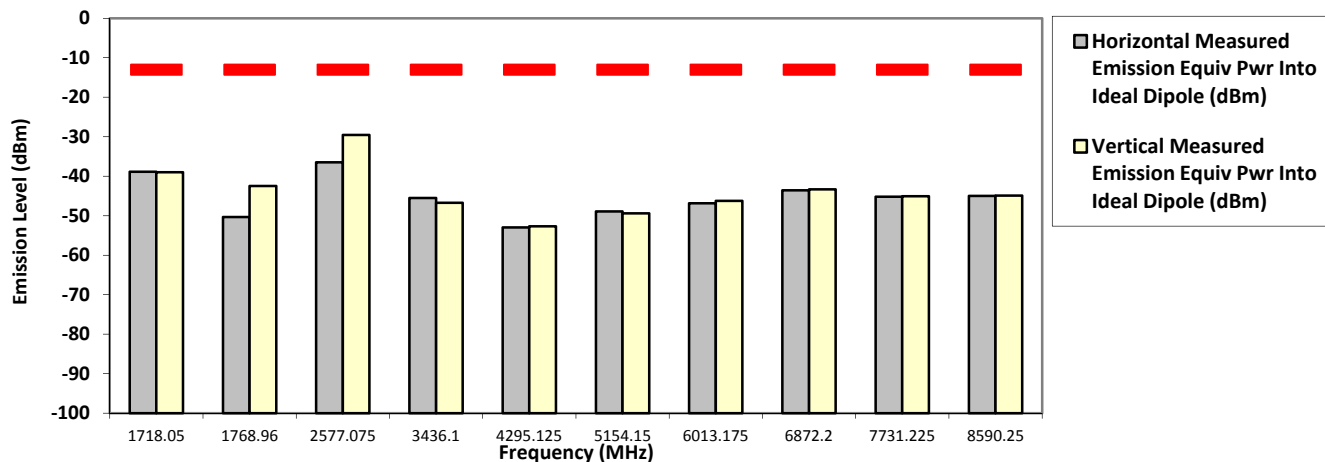
859.025000 MHz

25 kHz

2.000 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1718.0500	-13.0000	-38.8500 *	-39.0000 *
1768.9600	-13.0000	-50.3500 *	-42.4800 *
2577.0750	-13.0000	-36.4700 *	-29.5500
3436.1000	-13.0000	-45.5000 *	-46.7100 *
4295.1250	-13.0000	-52.9721 **	-52.6700 **
5154.1500	-13.0000	-48.9142 **	-49.4110 **
6013.1750	-13.0000	-46.8669 **	-46.2391 **
6872.2000	-13.0000	-43.5848 **	-43.3063 **
7731.2250	-13.0000	-45.1861 **	-45.0725 **
8590.2500	-13.0000	-45.0021 **	-44.9038 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Azil & Qawiman

Thu, Aug 16, 2018

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 24.1 Hum(%RH): 70.3

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

SAC Transmitter Radiated Emission:

Model Number: AZH63UCH6TZ8AN

S/N: 893TUB6029

SR:02567-EMC-00039

Battery Part No: NNTN8023C

Accy Part No: NA

Test Mode: TX Digital (DQPSK)

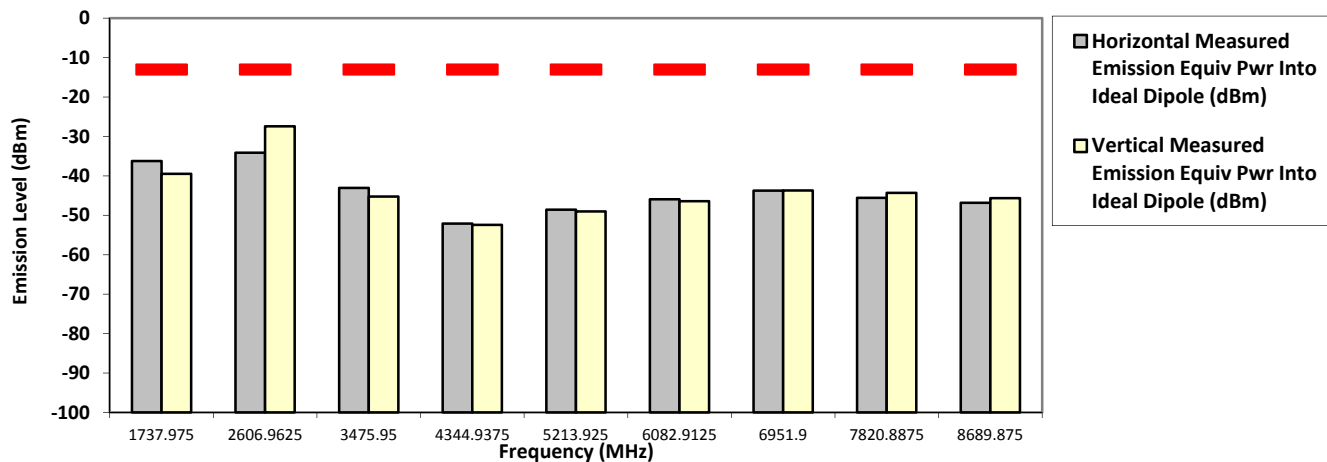
868.987500 MHz

25 kHz

2.000 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1737.9750	-13.0000	-36.2400 *	-39.4900 *
2606.9625	-13.0000	-34.1200 *	-27.4300
3475.9500	-13.0000	-43.0700 *	-45.2600 *
4344.9375	-13.0000	-52.0991 **	-52.4294 **
5213.9250	-13.0000	-48.5884 **	-49.0194 **
6082.9125	-13.0000	-45.9282 **	-46.4101 **
6951.9000	-13.0000	-43.7551 **	-43.7219 **
7820.8875	-13.0000	-45.5636 **	-44.3024 **
8689.8750	-13.0000	-46.8358 **	-45.6576 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Azil & Qawiman Thu, Aug 16, 2018

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 24.1 Hum(%RH): 70.3

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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6.11.4. Test Limit

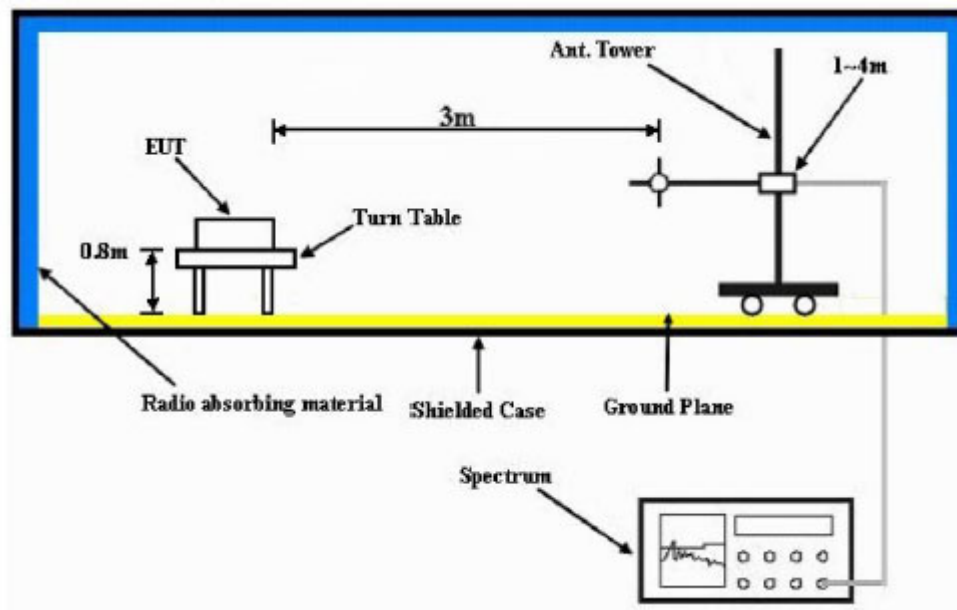
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

Channel Spacing	Part 22	Part 24D	Part 74	Part 80	Part 90 (UHF, VHF, 800, 900)	Part 90 (700)
12.5kHz	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	Not Applicable	50 + log ₁₀ (P) (-20 dBm)	43 + log ₁₀ (P) (-13 dBm)
25kHz		Not Applicable		43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)

Channel Spacing	RSS 134	RSS 182	RSS 119 (UHF, VHF, 800, 900)	RSS 119 (700)
12.5kHz	43 + log ₁₀ (P) (-13 dBm)	Not Applicable	50 + log ₁₀ (P) (-20 dBm)	43 + log ₁₀ (P) (-13 dBm)
25kHz	Not Applicable	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)

6.12. Effective Radiated Power (ERP)

6.12.1. Test Setup



- 1) The Resolution Bandwidth for Equivalent Radiated Power (ERP) below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for EIRP above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector Mode is RMS.
- 2) In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The "Read Value" is the spectrum reading of maximum power value.
- 3) The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.

6.12.2. Test Result

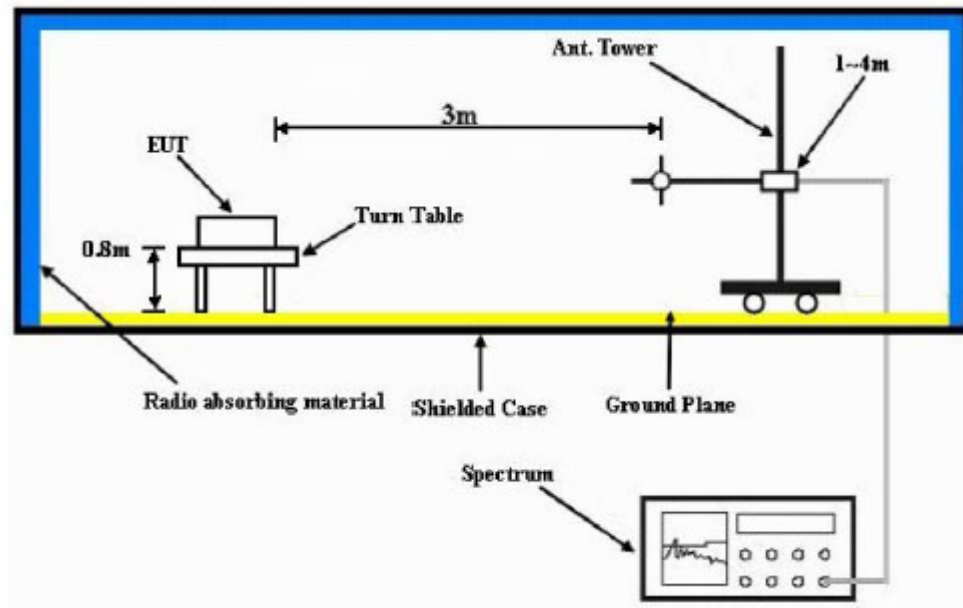
Not Applicable.

6.12.3. Test Limit

The maximum output power of the transmitter for mobile stations is 100 watts (20 dB). Power is given in terms of effective radiated power (ERP).

6.13. GNSS (EIRP for 1559 - 1610MHz)

6.13.1. Test Setup



- 4) The Resolution Bandwidth for Equivalent Isotropically Radiated Power (EIRP) below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for EIRP above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector Mode is RMS.
- 5) In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The “Read Value” is the spectrum reading of maximum power value.
- 6) The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
- 7) $EIRP = \text{“Read Value”} + \text{Measured substitution value} + 2.15$.

6.13.1. Test Result

Not Applicable.

6.13.2. Test Limit

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

~ End of Test Report ~